Grape Solar®

Clean Power. Today.

User Manual

GoCharger10

REV. 130620

Power pack User Manual

Thank you for purchasing the GoCharger10 portable solar panel. This solar panel will charge some electronic devices directly, under bright sunlight, but it is specifically designed to charge Grape Solar Portable Device Chargers. The Portable Device Chargers are designed to be an energy buffer between the panel and your device. Please read the manual carefully before using this product and be sure to keep this manual in a safe place for future reference.

Use Guidelines

- Please read this manual carefully before using the product.
- Be sure to select the proper USB connection adaptor when trying to connect your device.
- When the GoCharger is not in use disconnect all cables.
- Only use an adapter that matches the Output specifications of this solar panel. Using the wrong adaptors may damage the device.

Safety Precautions

- Do not expose the GoCharger to prolonged high temperatures over 185°F (85°C).
- Do not try to modify the output port.
- Do not store or transport the device near sharp objects that may puncture or otherwise damage the solar cells.
- Keep GoCharger output port away from water. If the GoCharger output port becomes wet unplug any cables and thoroughly dry it.

Product Specifications

Electrical Characteristics		USB Port
Maximum Power (Pm)	10W	-0.45%/°C
Power Tolerance	-5%	
Voltage at max power (Vmp)	5V	-0.35%/°C
Current at max power (Imp)	2A	0.05%/°C
Open circuit voltage (Voc)	5.80V	
Short circuit current (Isc)	2.2A	
Operating temperature	-40°C - +85°C	NOCT 46° ± 2°C
Maximum system voltage	700V	
Maximum series fuse rating	3A	

Standard Test Conditions: Irradiance 1000W/m2, 25°C, 1.5AM

Mechanical Characteristics

Solar cell	High Efficiency Mono Solar Cell
Number of cells/Connections	10=1x10pcs
Unfolded Product Dimensions	720mm * 215mm
Folded Product Dimensions	215mm * 180mm * 16mm
Net weight 500g	Gross weight 580g
Junction Box/Connector	USB Output
Warranty	Pm not less than 90% in 1 year
Fabric composition	100% nylon fabric + net pouch
Packaging size:	220mm * 182mm * 310mm

Operation Guide

1. Charging a Portable Device Charger or Portable Device

1-1 Connect your Grape Solar Portable Device Charger or portable device to the USB port. Charge time may take several hours.

1-2 For best results, maximize the surface of the panel exposed to the sun by pointing the panel directly at the sun.

Grape Solar Customer Support
1305 S Bertelsen Rd.
Eugene, OR 97402

Phone 877.264.1014
www.grapesolar.com
info@grapesolar.com

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Portable Device Chargers

SLATE

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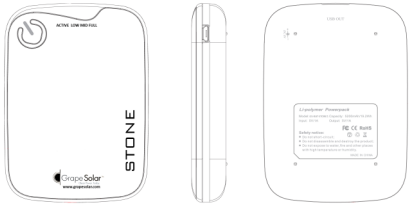
User Manual



STONE

REV. 130326

Power pack User Manual

Thank you for purchasing the Stone portable power pack. It is a rechargeable device designed to store energy from a portable solar panel or wall outlet and use that power to charge mobile devices including, but not limited to, smart phones, tablet PCs and MP3 players. Please read the manual carefully before using this product and be sure to keep this manual in a safe place for future reference.

Use Guidelines

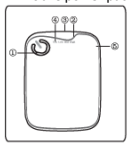
- Please read this manual carefully before using the product.
- Be sure to select the proper connector for your device.
- Do not attempt to charge a device with your power pack at the same time your power pack is charging.
- When the power pack is not in use disconnect all cables.
- Only use an adapter that matches the input specifications of the mobile power pack. Using the wrong adaptors may damage the device.

Safety Precautions

- Do not expose the power pack to prolonged high temperatures over 110°F (45°C).
- Do not short circuit the power pack
- Do not store or transport the device near sharp objects that may puncture the power pack.
- Keep power pack away from water. If the power pack becomes wet unplug the cables immediately.
- Do not use the power pack if there is an electrolyte leakage, strange odor, overheating, color change or any other abnormal occurrences.

Product Introduction

A. Mobile power pack



① Switch
② Capacity Indication light
③ Output port
④ Working Indication light
⑤ Input port

B. Product Specifications:

Battery Type	Polymer Lithium-ion battery
Nominal Input	DC 5V/1000mA
Nominal Output	DC 5V/1000mA
Capacity	5200mAh@3.7V(19.2Wh)
Dimensions	99x72x18mm
Weight	142g
Color	Optional
Operating Temperature	14°F to 110F° (-10°C to 45°C)

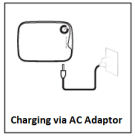
Operation Guide

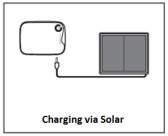
1. Charging the mobile power pack

1-1 Charging via the AC Adaptor: Plug the AC adaptor into a wall outlet. Plug the USB end of the charging adaptor cable into the adapter and the micro-USB end of cable into the power pack input port.

1-2 Charging via Solar: Plug the USB cable into the power pack input port, then plug the USB cable into the Grape Solar portable panel's USB port.

1-3 When the mobile power pack is being charged the capacity indication lights will flash. When it is fully charged, the lights will stop flashing.


Charging via AC Adaptor


Charging via Solar

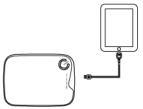
2. Charging your mobile devices

2-1 Check the remaining capacity of the mobile power pack. If the capacity is low, charge it first.

2-2 Select the correct connector from the USB output of the mobile power pack to your mobile device.

2-3 Plug the connector into your mobile device and then plug the cable into the USB output port of the mobile power pack.

2-4 The power pack will be turned on automatically and start charging the mobile device.



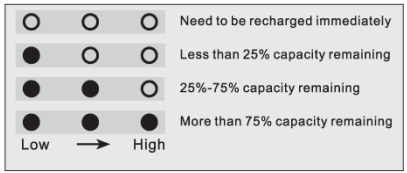
Note: If you already have a USB cable to charge your mobile device from a computer USB port, you can also charge your device from the mobile power pack with the same cable.

3. Automatic shut down

The mobile power pack will turn off automatically when it no longer detects a device to charge.

4. Checking the remaining capacity

Press the activation button and the capacity indication lights will show the level of charge.



Storage and Maintenance

If you do not plan to use the mobile pack for an extended period of time, please take the following steps:

1) Charge the power pack to between 25% and 75%.
2) Store the product and accessories in a cool dry place.
3) Use the power pack at least once every three months.

Troubleshooting

If you are experiencing difficulties with your mobile power pack, please refer the following table:

Problems	Possible causes	Solutions
The power pack is not fully charged even after being recharged.	Charge time is not long enough.	Charge the power pack for approx. 6~7 hours.
The power pack fails to supply power to a device.	1. The power capacity is low; 2. Poor connection between the connectors; 3. Incorrect connector tip.	1. Recharge the power pack; 2. Reconnect the cable and check all connections; 3. Use the correct connector tip.
A device is not fully charged by the power pack.	The power pack capacity is used up.	Recharge the power pack.

Focus on Reliability & Innovation

Smart charging and 12 multi-protections make Grape Solar mobile power packs among the safest on the market.

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Mobile Power Pack

FOR ALL YOUR DEVICES

RoHS